OIPE IAP97
JAN 30 2007
PATENT & TRADEMARK OFFICE



FIG.1

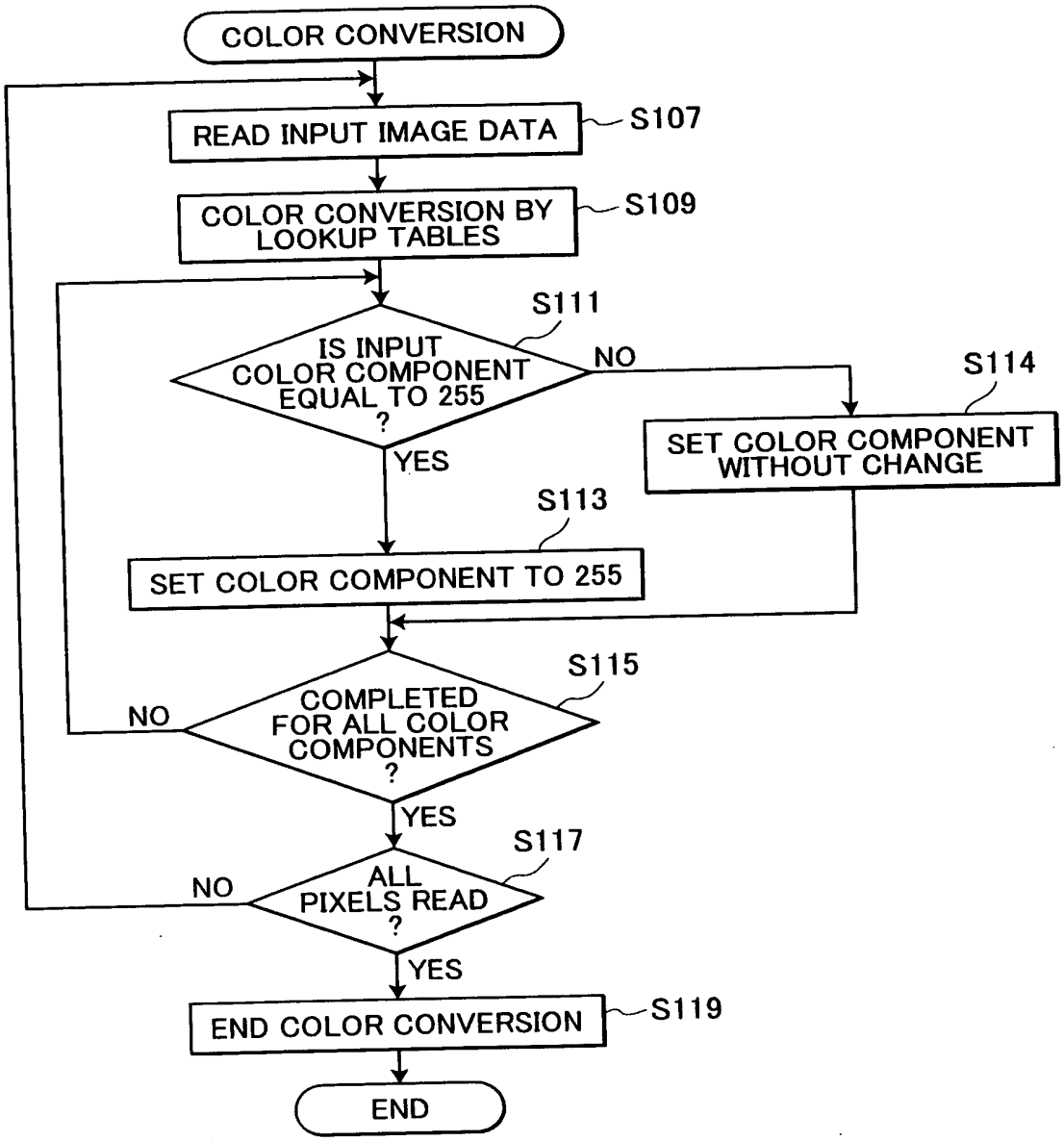


FIG.2(a)

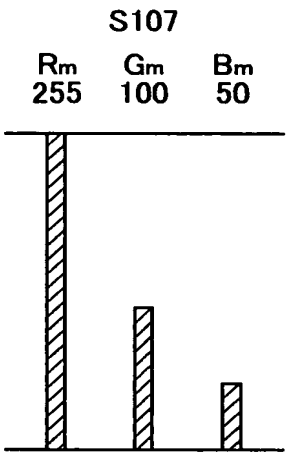



FIG.2(b)

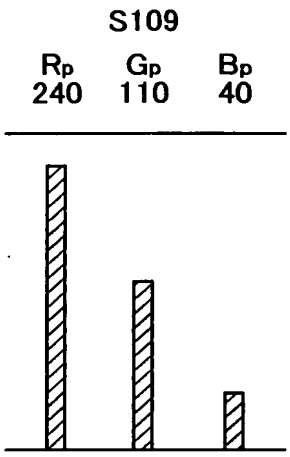



FIG.2(c)

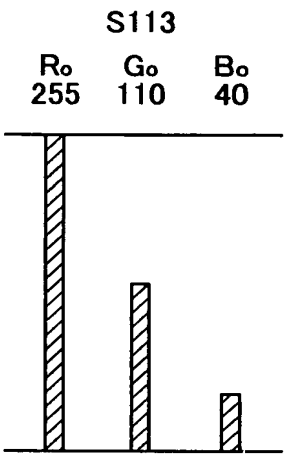



FIG.2(d)

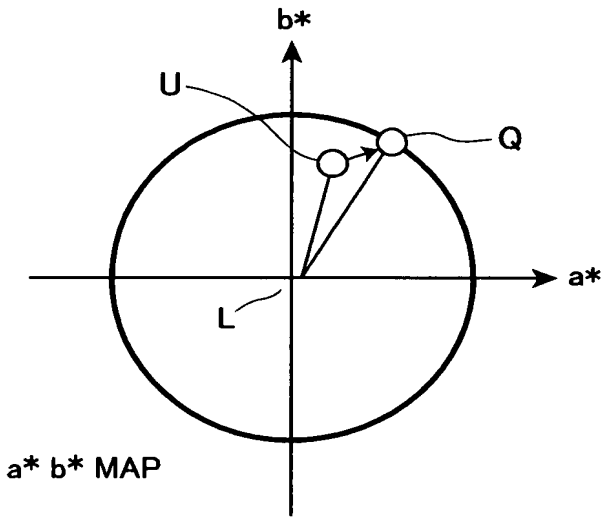


FIG.3

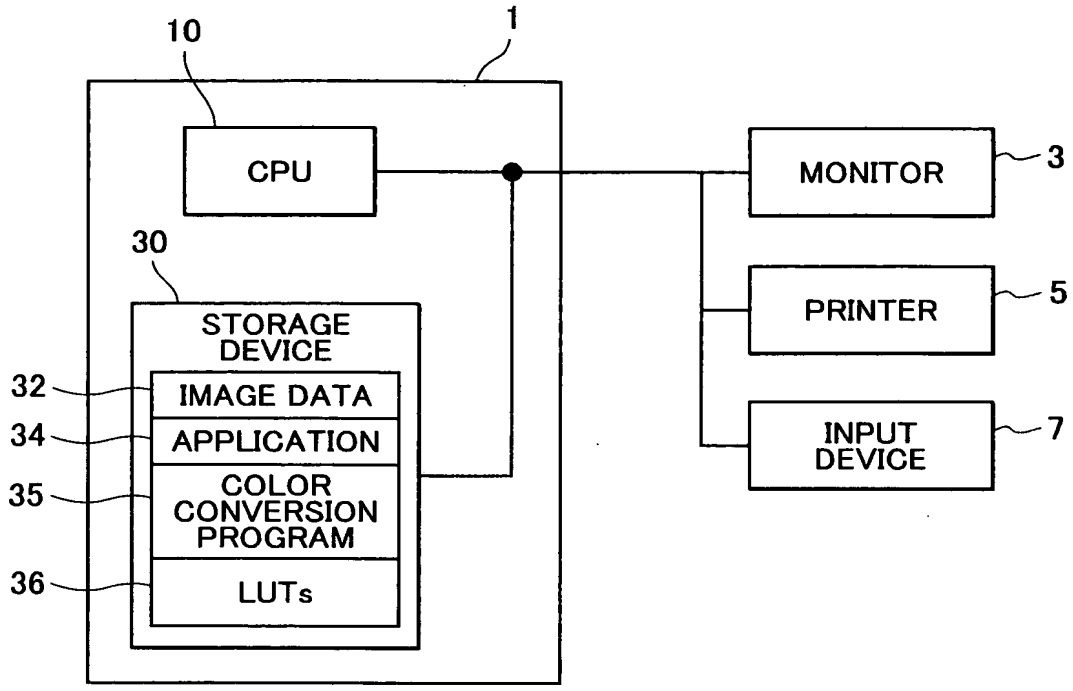

10
1
CPU
MONITOR
3
30
STORAGE DEVICE
PRINTER
5
32
IMAGE DATA
34
APPLICATION
INPUT DEVICE
7
35
COLOR CONVERSION PROGRAM
36
LUTs

FIG.4

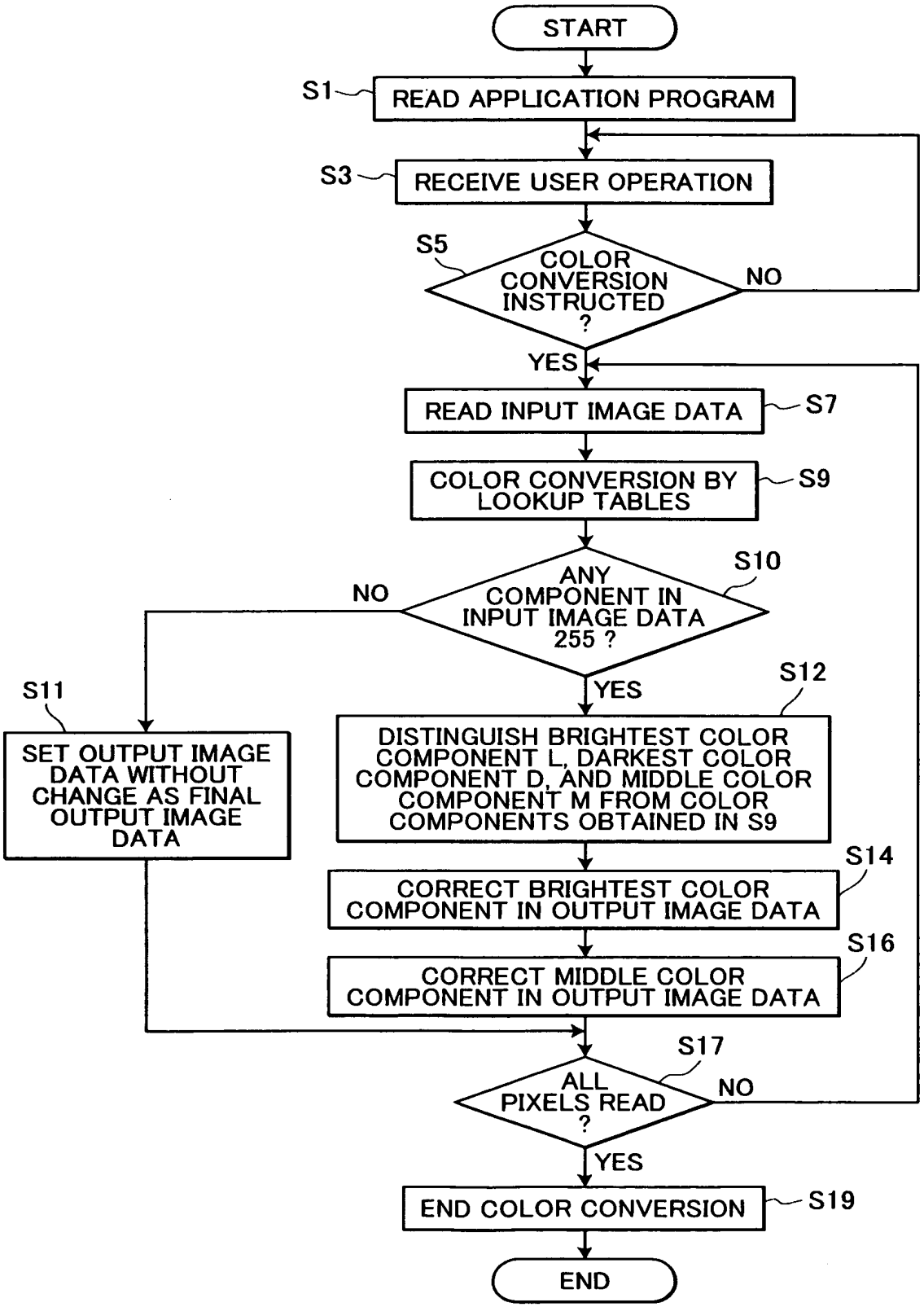

START
S1
READ APPLICATION PROGRAM
S3
RECEIVE USER OPERATION
S5
COLOR CONVERSION INSTRUCTED ?
NO
YES
READ INPUT IMAGE DATA
S7
COLOR CONVERSION BY LOOKUP TABLES
S9
ANY COMPONENT IN INPUT IMAGE DATA 255 ?
S10
NO
YES
S11
SET OUTPUT IMAGE DATA WITHOUT CHANGE AS FINAL OUTPUT IMAGE DATA
S12
DISTINGUISH BRIGHTEST COLOR COMPONENT L, DARKEST COLOR COMPONENT D, AND MIDDLE COLOR COMPONENT M FROM COLOR COMPONENTS OBTAINED IN S9
S14
CORRECT BRIGHTEST COLOR COMPONENT IN OUTPUT IMAGE DATA
S16
CORRECT MIDDLE COLOR COMPONENT IN OUTPUT IMAGE DATA
S17
ALL PIXELS READ ?
NO
YES
END COLOR CONVERSION
S19
END

FIG.5

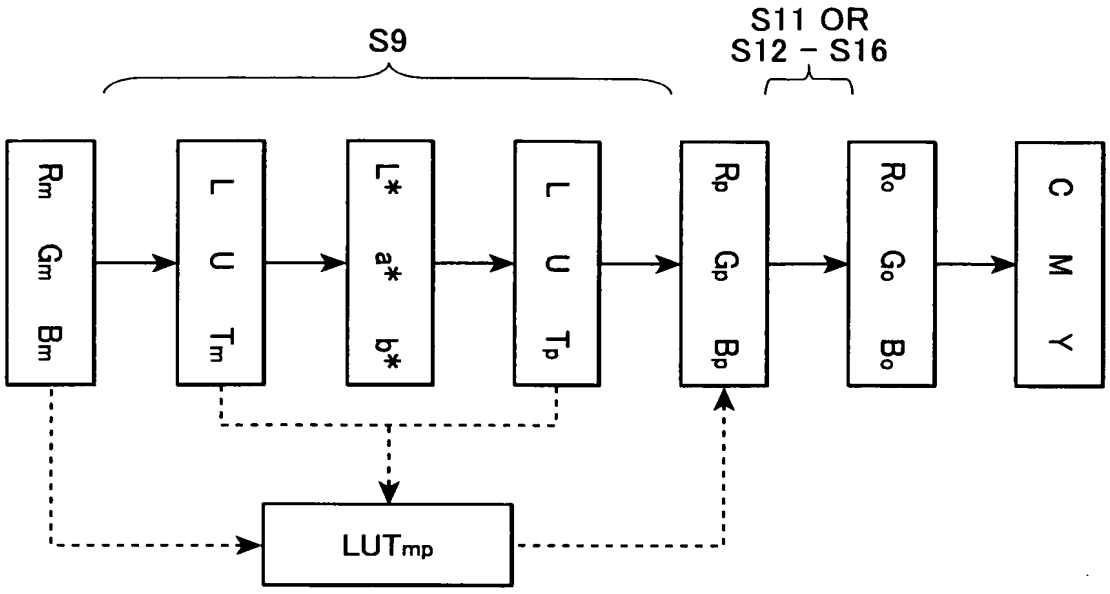

S9
S11 OR
S12 – S16
Rm Gm Bm
L U Tm
L* a* b*
L U Tp
Rp Gp Bp
Ro Go Bo
C M Y
LUTmp

FIG.6(a)

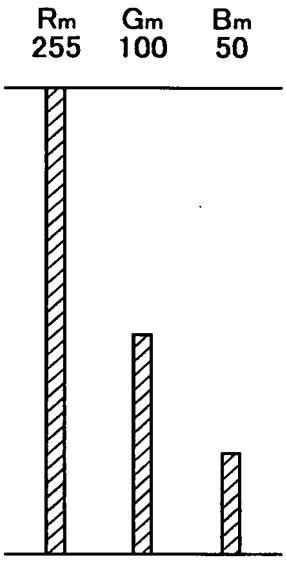



FIG.6(b)

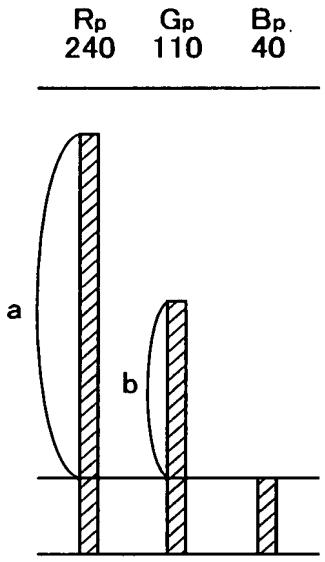



FIG.6(c)

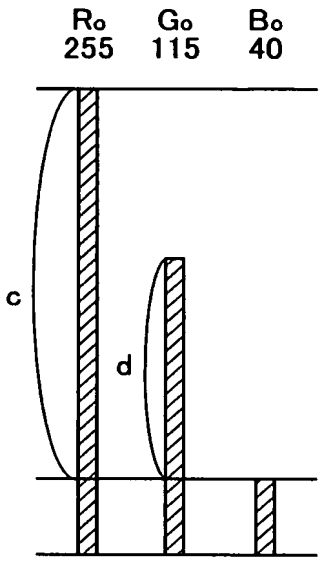



FIG.6(d)

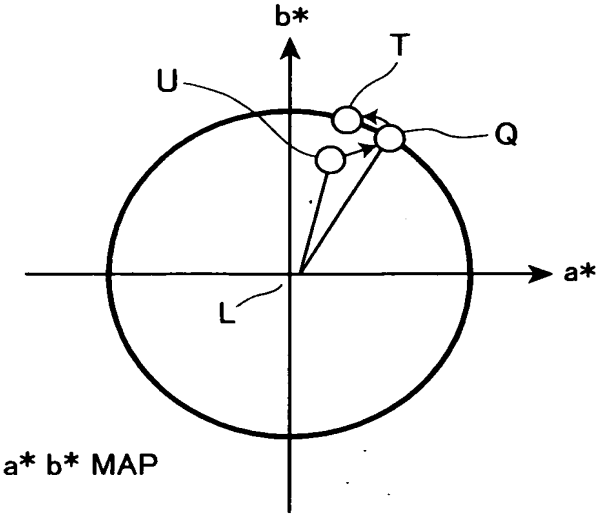


FIG.7(a)

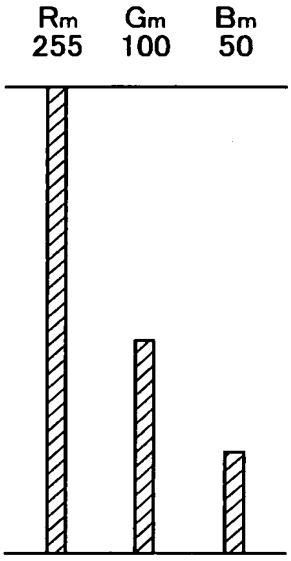



FIG.7(b)

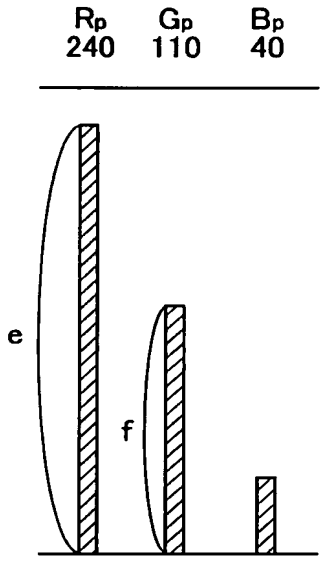



FIG.7(c)

